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Professional Experience

- Investigation of low-temperature performance of lithium-ion batteries using micro-reference electrodes
- Development of flexible low-cost packaging for a hybrid electric vehicle battery, including accelerated abuse test procedures to predict calendar life
- Development of micro-reference electrodes and large-area planar test fixtures for lithium-ion cells
- Development of high-power lithium-ion battery using metal oxides as alternative anode materials
- Evaluation of performance of laboratory and prototype cells as a function of operating conditions and starting materials
- Investigation of the influence of metal additives in nickel-metal hydrides on crystal structure and cell performance

Professional Society Activities

- Electrochemical Society

Education

- PhD, Chemical Engineering, University of Florida
- MS, Chemical Engineering, University of Virginia
- BS, Chemical Engineering, University of Wisconsin